

Docket No. 55942 (71699)

IN THE UNITED STATES ELECTED OFFICE (EO/US)
(ENTRY INTO US NATIONAL PHASE UNDER CHAPTER II)

In re application: The Johns Hopkins University

International Application No.
PCT/US02/41901

Filed: Herewith

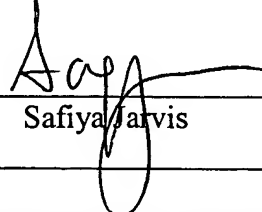
For: TUNABLE PLANAR AND CYLINDRICAL MULTI-ELEMENT MAGNETIC
RESONANCE IMAGING DETECTOR ARRAYS, SYSTEMS AND APPARATUSES
EMBODYING SUCH ARRAYS AND METHODS RELATED THERETO

MAIL STOP PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
Attn: EO/US

Sir:

CERTIFICATE OF EXPRESS MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service "Express Mail Deposited to Addressee" EV 438 992 743 US in an envelope addressed to Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, Attn: EO/US on June 28, 2004.

By: 
Safiya Jarvis

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §§1.97 and 1.98, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications or other information submitted for consideration by the Office are listed on PTO-1449, attached hereto.

II. COPIES

a. X Submitted herewith is a legible copy of (i) each foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.

III. CONCISE EXPLANATION OF THE RELEVANCE

(check at least one box)

a. X Except as may be indicated below in (b), all of the patents, publications or other information are in the English language or were cited in an English language Search Report, a copy of which is attached hereto (concise explanation not required).

b. _____ A concise explanation of the relevance of all patents, publications or other information listed that is not in the English language is as follows:

c. _____ The following additional information is provided for the Examiner's consideration:

FEES

IV. THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.97(b)

(check one box)

a. X within three months of the filing date of a national application (37 C.F.R. § 1.97(b) (1)). No fee or certification is required.

b. _____ within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b) (2)). No fee or certification is required.

c. _____ before the mailing date of a first Action on the merits (37 C.F.R. § 1.97(b) (3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below, or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).

V. THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.97(c):
(check one box)

before the mailing date of a Final Office Action under 37 C.F.R. § 1.113 (See 37 C.F.R. § 1.97(c) (1)) or before the mailing date of a Notice of Allowance under 37 C.F.R. § 1.311 (See 37 C.F.R. § 1.97(c) (2)).

a. ☐ No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

or

b. ☐ See the certification below. No fee is required.

VI. CERTIFICATION UNDER 37 C.F.R. § 1.97(e)
(check only one box)

The undersigned hereby certified that

a. ☐ each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS; or

b. ☐ no item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application or, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement.

c. ☐ Some of the items of information were cited in a communication from a foreign Patent Office. As to this information, the undersigned certifies that each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application or, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement.

VII. THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.97(d)

☐ after the mailing date of a Final Rejection or Notice of Allowance but before the payment of the Issue Fee, and the requisite Certification, petition, and petition fee are included herein.

a. ☐ after the mailing date of a Final Office Action under 37 C.F.R. § 1.113

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b. ☐ see certificate above

c. ☐ a fee in the amount of \$180.00 is required by 37 CFR §1.17(p)

d. ☐ applicant hereby petitions that this Information Disclosure Statement is considered in accordance with 37 C.F.R. §1.97(d).

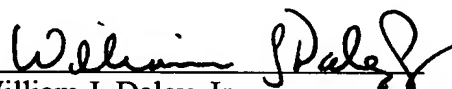
☐ Enclosed is a check in the amount of \$180.00 for the above-indicated fee. Should any further fee be associated with the submission of this Information Disclosure Statement, the Commissioner is authorized to charge our Deposit Account No. 04-1105.

☒ No fee is required.

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition, if necessary) and charge the appropriate fee to Deposit Account No. 04-1105.

Respectfully submitted,

Date: June 28, 2004


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FORM PTO-1449			DOCKET NO: 55942 (71699)		SERIAL NO: 10/500440 Not yet assigned		
INFORMATION DISCLOSURE STATEMENT			APPLICANT: The John Hopkins University				
			FILING DATE: Herewith		GROUP NO. Not yet assigned		
UNITED STATES PATENT DOCUMENTS							
EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A1	3,789,832	2/5/1974	Damadian	128	2 R	
	A2	4,783,641	11/8/1988	Hayes et al.	333	219	
	A3	4,825,162	4/25/1989	Roemer et al.	324	318	
	A4	4,968,937	11/6/1990	Akgun	324	318	
	A5	5,270,656	12/14/1993	Roberts et al.	324	318	
	A6	5,363,845	11/15/1994	Chowdhury et al.	128	653.5	
	A7	5,365,172	11/15/1994	Hrovat et al.	324	309	
	A8	5,467,017	11/14/1995	Duerr et al.	324	318	
	A9	5,523,689	6/4/1996	Oppelt et al.	324	318	
	A10	5,744,957	4/28/1998	Vaughan, Jr.	324	318	
	A11	5,910,728	6/8/1999	Sodickson	324	309	
	A12	5,990,681	11/23/1999	Richard et al.	324	318	
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)							
	C1	Wright, et al., "Arrays of Mutually Coupled Receiver Coils: Theory and Application", Magnetic Resonance in Medicine 17, 252-268 (1991).					
	C2	Roemer, et al., "The NMR Phased Array", Magnetic Resonance in Medicine 16, 192-225 (1990).					
	C3	Vaughan, et al., "High Frequency Volume Coils for Clinical NMR Imaging and Spectroscopy", MRM 32:206-218 (1994).					
EXAMINER:					DATE:		

DT04 Rec'd PTO 28 JUN 2004

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	DOCKET NO: 55942 (71699)	SERIAL NO.: Not yet assigned
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UNITED STATES PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A13	4,638,253	1/20/1987	Jakolksi et al.	324	311	
	A14	4,751,464	6/14/1988	Bridges, James F.	324	318	
	A15	5,017,872	5/21/1991	Foo et al.	324	322	
	A16	5,212,450	5/18/1993	Murphy-Boesch et al.	324	322	
	A17	5,270,656	12/14/1993	Roberts et al.	324	318	
	A18	5,367,261	11/22/1994	Frederick, Perry S.	324	318	
	A19	5,621,322	4/15/1997	Ehnholm, Gosta J.	324	318	
	A20	5,642,048	6/24/1997	Crozier et al.	324	318	
	A21	5,898,306	4/27/1999	Liu et al.	324	318	
	A22	5,990,681	11/23/1999	Richard et al.	324	318	
	A23	5,998,999	12/7/1999	Richard et al.	324	318	
	A24	6,169,401	1/2/2001	Fujita et al.	324	318	

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

EXAMINER:	DATE:
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UNITED STATES PATENT DOCUMENTS							
EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A25	6,236,206	5/22/2001	Hartman, et al.	324	318	
	A26	6,252,403	6/26/2001	Alsop, David C.	324	318	
	A27	6,285,189	9/4/2001	Wong, Wai Ha	324	318	
	A28	6,316,941	11/13/2001	Fujita, et al.	324	318	
	A29	6,396,271	5/28/2002	Burl et al.	324	318	
	A30	6,420,871	7/16/2001	Wong et al.	324	318	
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)							
EXAMINER:					DATE:		